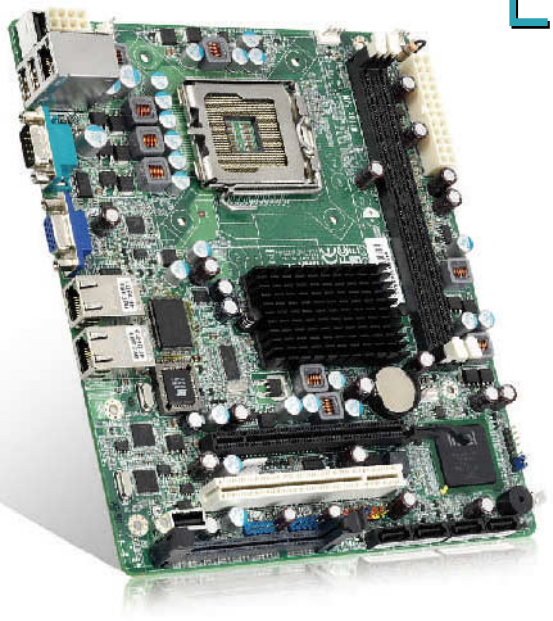
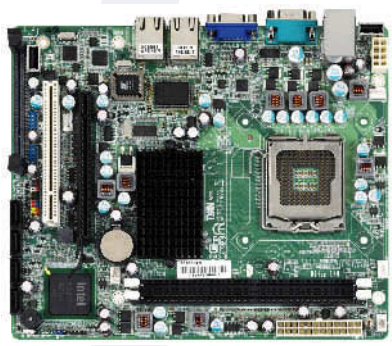
TYAN®

Single-Socket Embedded Platform



S5221

S5221G2N



■ **Intel® Q35 Chipset**

Single-socket embedded platform with optional IPMI support

- Single LGA775 socket support (1) Intel® Xeon® 3000 series, Core™ 2 Extreme, Core™ 2 Quad, Core™ 2 Duo processors
- Support FSB 1333/1066/800 MHz
- Intel® Q35 GMCH
- Intel® ICH9 South Bridge
- (2) 240-pin DDR2 DIMM slots support up to 4GB U-DDR2 800/667MHz memory
- (1) PCI-E x16 slot
- (1) PCI 32/33MHz slot
- (4) SATA-II connectors
- (2) GbE LAN
- Optional TYAN® SMDC M3295-2 for IPMI support
- Flex ATX (9" x 7.5") form factor

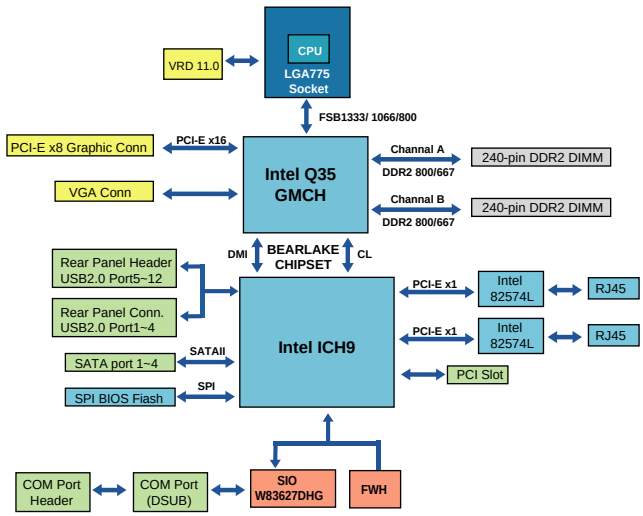
(Specifications are subject to change without notice. Items pictured may only be representative.)

S5221
S5221G2N

Specifications

Processor	Supported CPU Series		Intel® Xeon® 3000 Series, Core 2 Extreme, Core 2 Quad, Core 2 Duo, Pentium D, Celeron processors
	Socket Type / Q'ty		LGA775 / (1)
	Thermal Design Power (TDP) wattage		130W
	System Bus		1333/ 1066/ 800 MHz
Chipset	IOH / ICH		Intel Q35 / ICH9
	Super I/O		Winbond W83627DHG
Memory	Supported DIMM Qty		(2) DIMM slots
	DIMM Type / Speed		Unbuffered Non-ECC DDR2 / 800/667/533
	Capacity		Up to 8GB
	Memory channel		2 Channels
	Memory voltage		1.8V
Expansion Slots	PCI-E		(1) PCI-E x16 slot
	PCI		M2083-RS, PCI-E x16 1U riser card (left) M2061, PCI-E x8 to PCI-X 1U riser card (left)
	PCI		(1) PCI 32-bit slot
LAN	Port Q'ty		(2)
	Controller		Intel® 82574L
	SATA	Connector	(4) SATA
		Controller	ICH9
		Speed	3.0 Gb/s
		RAID	N/A
Graphic	Connector type		D-Sub 15-pin
	Resolution		2048x1536 @75 Hz refresh (analog display)
	Chipset		Intel® Q35
Input /Output	USB		(7) USB2.0 ports (2 at rear, 4 via cable, 1 type A onboard)
	COM		(1) port (rear)
	VGA		(1) D-Sub 15-pin VGA port
	RJ-45		(2) GbE ports / (1) RJ-45 port for IPMI
	SO-DIMM		(1) SO-DIMM slot for optional TYAN® SMDC M3295-2/ M3296
	Power		EPS12V / SSI 24-pin + 8-pin power connectors
	Front Panel		(1) 2x9-pin TYAN® front panel header (TYFP-I)
	SATA		(4) SATA-II connectors
System Monitoring	Chipset		Winbond W83627
	Voltage		Monitors voltage for CPU, memory, chipset & power supply
	Fan		Total (4) 4-pin headers
	Temperature		Monitors temperature for CPU & system environment
	Others		Chassis intrusion detection / Watchdog timer support
Server Management	Optional SMDC		M3295-2 IPMI 2.0 remote system management card
	M3295-2 Feature		- Renesas H8S2167 Baseboard Management Controller (BMC) - Supports remote power on/off and reset (IPMI over LAN) - Dedicated management NIC - Card interface: OPMA 200-pin DDR2 SO-DIMM slot - SOL (remote serial console redirect over LAN)

Block Diagram



BIOS	Brand / ROM size	Phoenix / 4MB
	Feature	Plug and Play (PnP) /PCI2.3 /WfM2.0 SMBIOS2.3 /PXE boot / ACPI 2.0 power management Power on mode after power recovery User-configurable H/W monitoring Auto-configurable of hard disk types Multiple boot options
Form Factor	Form Factor	Flex ATX
	Board Dimension	9"x7.5" (228.6x190.5mm)
Operating System	OS supported list	Please refer to our OS supported list.
Regulation	FCC (DoC)	Class B
	CE (DoC)	Yes
Operating Environment	Operating Temp.	10° C ~ 35° C (50° F~ 95° F)
	Non-operating Temp.	- 40° C ~ 70° C (-40° F ~ 158° F)
	In/Non-operating Humidity	90%, non-condensing at 35° C
RoHS	RoHS 6/6 Complaint	Yes

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